

RUFANOV, G. (Taganrog-TSelina)

Our place is where the work is hardest. Za rul. 18 no.9:2 S'60.
(MIRA 13:10)

(Taganrog--Transportation, Automotive)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2

RUFANOV, P. G.

"Ship's Steam Engines and Turbines", published by State Publishers of River Transport Literature, Moscow, 1947

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2"

RUFANOV, P.G.

IKONNIKOV, S.A.; RUFANOV, P.G.; PANASEVICH, I.S.; KRAKOVSKIY, I.I.;
SHIMKO, K.N., redaktor; SHLENNIKOVA, Z.V., redaktor.

[Marine power installations] Sudovye silovye ustanovki. Izd. 2.,
perer. i dop. Moskva, Gos. izd-vo vodnogo transporta, 1954. 572 p.
(Marine engines) (Steam boilers, Marine) (MLRA 7:8)

KUFANOV, PAVEL GRIGOR'YEVICH

RUFANOV, Pavel Grigor'yevich; POTAPOV, N.S., retsenzent; VYSOTA, I.I.,
retsenzent; KOMOGORTSEV, P.Ya., redaktor; SHIENNIKOVA, Z.V.,
redaktor; HEGICHEVA, M.N., tekhnicheskiy redaktor.

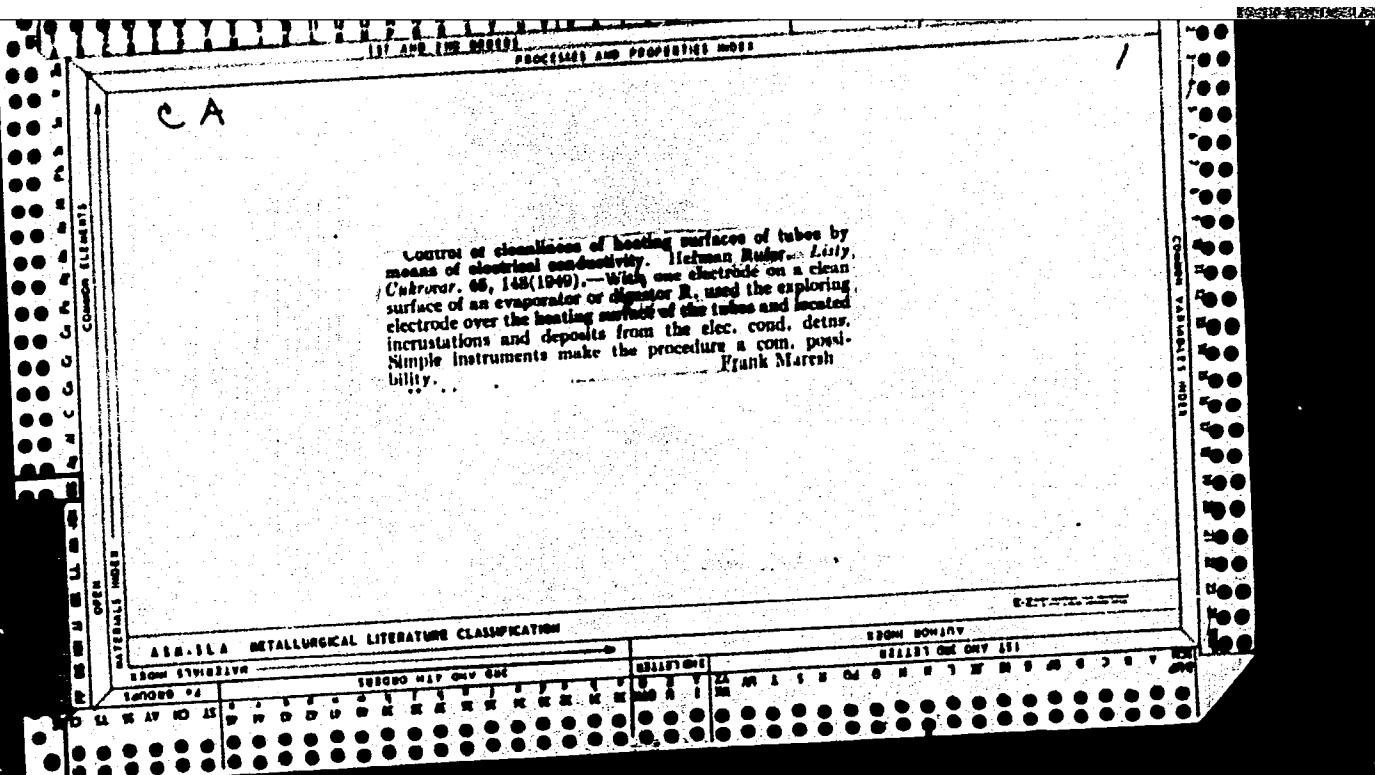
[Marine steam engines and turbines] Sudovye parovye mashiny i tur-
biny. Izd. 2-e, ispr. i dop. Moskva, Izd-vo "Rechnoi transport," 1955.
530 p. (Marine engines) (Steam turbines)

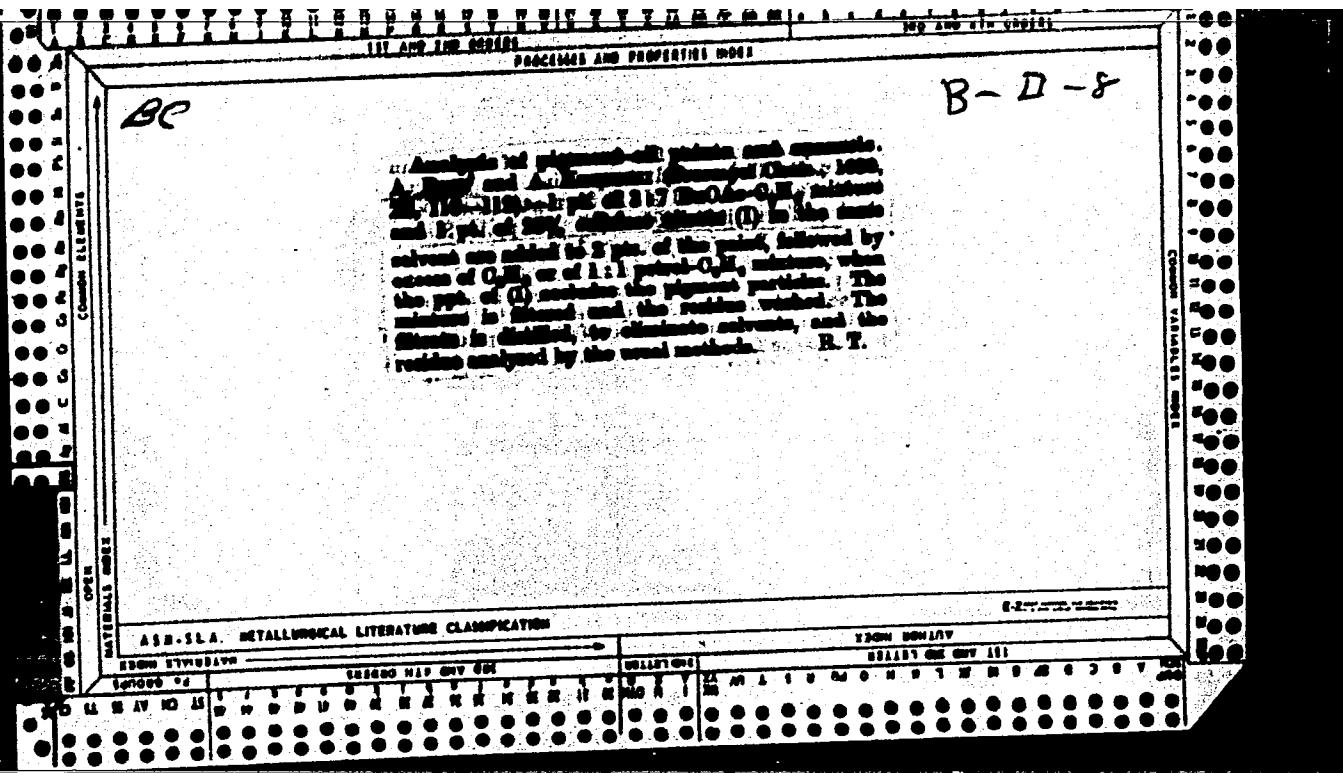
RUFEL', A.P.

New autoclave for construction industry. Nov. tekhn. i pered. op.
v stroi. 20 no.2:29 F '58. (MIRA 11:2)
(Autoclaves)

POLYAKOV, Ye.V., dots., kand. tekhn. nauk; BORODIN, I.V., prof., doktor tekhn. nauk, retsenzent; RUFEL', N.A., prof., retsenzent; KHMUNIN, S.D., kand. tekhn. nauk, retsenzent; DUMASHOV, Yu.F., inzh., retsenzent; IVANOV, I.T., kand. tekhn. nauk, nauchn. red.; ISEYEVA, R.Kh., red.

[Reconstruction and repair of apartment houses] Rekonstruktsiia i remont zhilykh zdani. Moskva, Stroizdat, 1964. 200 p. (MIRA 17:12)





RUFER, A. Dr.

Traumatic rupture of public symphysis. Acta chir. orthop. traum. czech.
24 no.4:308-311 July 57.

1. Chirurgicks oddeleni OUNZ v Nymburce, prednosta Dr. A. Ruffer.
(PUBIC SYMPHYSIS, rupt.

traum., with tearing of sacroiliac joint & pelvic
disloc., surg. (Cz))

(SACROILIAC JOINT, wds. & inj.

tearing, with rupt. of public symphysis & pelvic
disloc, surg. (Cz))

(PELVIS, disloc.

traum., with rupt. of public symphysis & tearing of
sacroiliac joint, surg. (Cz))

KUFER, Z.; CERNÝ, I.; DADO, S.

Electronic thermometer for temperature measurement by aircraft.
Meteor zpravy 17 no.4:121-123 Ag'64.

1. Institute of Atmospheric Physics, Czechoslovak Academy of Sciences (for Kufér and Černý); 2. Faculty of Electrical Engineering, Czech Higher School of Technology, Hoděbrády (for Dado).

FORMAN, Rudolf; RUFERT, Svatopluk, dr.

Establishment of technical and organizational standards in food
industry. Prace mzdá 9 no.3:103-110 Mr '61.

RUFERT, Svatopluk, dr. CSc.

What the labor economist should know about production programming. Prace mzda 12 no.3:122-128 Mr'64

1. Research Institute of the Food Industry Economy, Prague.

FORMAN, Rudolf, C.Sc.; RUFERT, Svatopluk, dr.

New trends in establishing technical working standards. Prum
potravin 13 no.12:619-623 D '62.

1. Vyzkumny ustav ekonomiky potravinarskeho prumyslu, Praha.

RUFERT, S.

Wage scale. p.4

PRUMYSL POTRAVIN. (Ministerstvo potravinarskeho prumyslu) Praha

Vol. 6, no. 1, 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

I 37730-56 EWP(j) RM

ACC NR: AT6028244

SOURCE CODE: HU/2502/65/046/001/0001/0020

AUTHOR: Burger, Kalman (Doctor; Budapest); Ruff, Ferenc (Doctor; Budapest);
Ruff, Imre (Doctor; Budapest); Egyed, Ildiko--Ed'yed, I. (Budapest)

66

B+1

ORG: Department of Inorganic and Analytical Chemistry, L. Eotvos University,
Budapest; Department of Organic Chemistry, L. Eotvos University, BudapestTITLE: Some theoretical and practical problems in the use of organic reagents in
chemical analysis. Part VI. Hydrogen bridges and donor pi bonds in the salicylaldoxime
complexes of transition metals

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 46, no. 1, 1965, 1-20

TOPIC TAGS: pi bonded organometallic compound, IR spectrum, UV spectrum, chemical
bonding, dissociation constant, spectrophotometric analysisABSTRACT: The infrared and ultraviolet absorption spectra of 5-methyl-, 5-chloro-
and 5-nitrosalicylaldoxime and their Mn(II), Fe(II), Co(II), Ni(II), Cu(II) and
Zn(II) complexes have been investigated. Infrared spectra show the presence of a
donor pi bond between the transition metal central atom and the oxime group of the
ligand. The presence of stable intramolecular H bridges has been detected in the
complexes. The stability of hydrogen bridges decreases in the order $\text{CH}_3 > \text{H} > \text{Cl} >$
 NO_2 . In the Cu(II) and Ni(II) complexes an asymmetric hydrogen bridge is found.
In all other complexes the H bond is symmetrical. The acid dissociation constants
of the ligands have been calculated from the data of ultraviolet spectrophotometric
measurements. Orig. art. has: 22 figures and 5 tables. [Orig. art. in Eng.]

[JPRS: 33,906]

SUB CODE: 07 / SUBM DATE: 27Oct64 / ORIG REF: 005 / OTH REF: 008

Card 1/1 PB

0917

1827

L 38648-66 EWP(j) RM/JW

ACC NR: AP6027655

SOURCE CODE: HU/0005/66/000/004/0176/0181

AUTHOR: Foti, Andras; Gerecs, Arpad; Ruff, FerencORG: Department for Chemical Technology, Eotvos Lorand Scientific University,
Budapest (Eotvos Lorand Tudomanyegyetem Kemial-Technologial Tanszeke)TITLE: Structure and relative ring stability of some O-acetyl-monose 2,4-dinitro-
phonylhydrazones

SOURCE: Magyar kemial folyoirat, no. 4, 1966, 176-181

TOPIC TAGS: molecular structure, chemical stability, organic chemistry, chemistry
technique, IR spectroscopy

ABSTRACT: The structure and relative ring stability of the 2,4-dinitrophenylhydrazones of O-pentaacetyl-D-glucose, O-tetraacetyl-D-glucose, O-tetraacetyl-2-desoxy-D-glucose, O-tetraacetyl-6-desoxy-D-glucose, O-triacetyl-6-desoxy-D-glucose, O-tetraacetyl-6-desoxy-6-nitro-D-glucose, O-triacetyl-6-desoxy-6-nitro-D-glucose, O-tetraacetyl-6-O-methyl-D-glucose, and O-triacetyl-6-O-methyl-D-glucose was investigated with the aid of chemical techniques and infrared spectroscopy. In an increasing order, the following substituents influence favorably the stability of the ring:
 $H < CH_2OCOCH_3 < CH_3$. Orig. art. has: 6 figures and 5 tables. [JPRS: 36,464]

SUB CODE: 07 / SUIM DATE: 28Aug65 / ORIG REF: 005 / OTH REF: 001

Card 1/1 100

0917 1151

L 47534-66 EWP(j) RM

ACC TIR: AT6035008

SOURCE CODE: HU/2502/66/047/002/0221/0229

AUTHOR: Foti, Andras, Gerecs, Arpad-Gerech, A., (Professor; Doctor) and Ruff, Ferenc, of the Chair for Chemical Technology at L. Eotvos University in Budapest.

"Structure and Ring Stability of Some O-Acetylmonose-2,4-Dinitro-
Phenylhydrazones"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47,
No 2, 1966, pp 221-229.

Abstract: [German article] Experiments were conducted to establish the structure and relative ring stability of some monose hydrazones capable of being considered as D-xylose derivatives substituted at C-atom No. 5. Methyl substitution had the greatest ring-stabilizing effect, followed in descending order by $\text{CH}_2\text{OCOCH}_3$ and H. On subjecting 2-deoxy-D-glucose-2,4-dinitrophenylhydrazone to acetylation at 0°C , an O-acetylhydrazone of open chain structure forms, while the corresponding D-glucose derivative has a cyclic structure. The studies were performed with the aid of infrared spectroscopy. The authors thank Mrs. M. Barta for the valuable assistance with the preparation of the work, Mrs. M. Balogh for the microanalysis, and Miss I. Mero for technical assistance. Orig. art. has: 6 figures and 3 tables. /JPRS: 36,002/

TOPIC TAGS: hydrazine derivative, chemical stability, IR spectroscopy
SUB CODE: 07 / SUBM DATE: 07 Sep 65 / ORIG REF: 005 / OTM REF: 001

MJS
Card 1/1

0921 1521

56
BT)

BURGER, Kalman; RUFF, Imre; RUFF, Ferenc

Effect of the formation of tetragonal bipyramidal mixed complexes on the structure and stability conditions of cobalt (II)-dimethyl-glyoxime. Magy kem folyoir 70 no.9:394-400 S '64.

1. Chair of Inorganic and Analytic Chemistry, Lorand Eotvos University, Budapest, and Chair of Inorganic Chemistry, Lorand Eotvos University, Budapest.

KOROS, Endre; PAULIK, Ferenc; ERDEY, Laszlo; RUFF, Ferenc

Thermal decomposition of some cobalt (II)-pyrazine mixed complexes. Magy kem folyoir 70 no.11:468-474 N '64.

1. Chair of Inorganic and Analytic Chemistry, Lorand Eotvos University, Budapest, Chair of General Chemistry, Budapest Technical University, and Chair of Organic Chemistry, Lorand Eotvos University, Budapest. 2. Editorial board member, "Magyar Kemiai Folyoirat" (for Erdey).

L 46870-66 IJP(c) AT
ACC NR: A 6034713

SOURCE CODE: HU/0005/65/07I/009/0404/0407

38

B

AUTHOR: Ruff, Imre, Eotvos Lorand University, Department of Inorganic and Analytical Chemistry (Eotvos Lorand Tudomanyegyetem, Szervetlen- és Analitikai-Kemiai Tanszék), Budapest.

TITLE: Role of water in electron transfer reactions I.

SOURCE: Magyar Kemial folyoirat, v. 71, no. 9, 1965, 404-407

TOPIC TAGS: activation energy, reaction mechanism

ABSTRACT: A new model is proposed for the interpretation of the rate of electron transfer reactions on the basis of the tunnel effect. The new model eliminates the disadvantages of the earlier one proposed by Eyring et al., which arose from the electrostatic calculation of the potential barrier inhibiting the electron exchange, and from the fact that the solvent was looked upon as a continuous medium. The electron transmission coefficient was calculated from experimental values of the activation energy and from the corresponding normal redox potentials. These calculated values were compared with the ones determined experimentally.

The author thanks Scientific Associate Ferenc Beleznay of Research Institute of Technical Physics, MTA, for valuable discussions. Orig. art. has: 2 figures, 7 formulas and 1 table. [JPRS]

(Based on author's English abstract.)

SUB CODE: 07 / SUBM DATE: 15 Mar 65 / OTH REF: 010

Card 1/1 *pla*

0921 1348

L 0070L-67 T IJP(c) DS/AT
ACC NR: AT6035469

SOURCE CODE: HU/2502/66/047/003/0255/0261

45
B1/

AUTHOR: Ruff, Imre (Doctor; Budapest)

ORG: Department for Inorganic and Analytical Chemistry, L. Eotvos University, Budapest

TITLE: Role of water in electron transfer reactions. Part 3

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 47, no. 3, 1966, 255-261

TOPIC TAGS: water, electrode, chemical reaction kinetics, electrochemistry

ABSTRACT: The applicability of the model described in previous instalments of this series (Part 2; same issue, preceding article) for chemical electron transfer reactions was investigated in electron transfer reactions taking place on the surface of an electrode. The results obtained with the aid of the model correlated well with experimentally established values for electrochemical reactions. Methods for calculating the exchange current were discussed. Orig. art. has: 1 figure, 15 formulas, and 2 tables. [Orig. art. in Eng.] [JPRS: 36,464]

SUB CODE: 07 / SUBM DATE: 08Jul65 / ORIG REF: 001 / SOV REF: 001
OTH REF: 006

Corr 1/1 mjs

0921 2187

L 47533-66 EWP(J) RM
ACC NR: AT603500

SOURCE CODE: HU/2502/66/047/002/0143/0155

RIFF, Imre, (Dr.) and BURGER, Kalman, (Dr.) of the Institute for Inorganic and Analytical Chemistry at L. Eotvos University in Budapest.

21

P71

"Some Theoretical and Practical Problems in the Use of Organic Reagents in Chemical Analysis. Part 8: Influence of the Chelate Effect and Ring Size on the Stability of the Dioxime Complexes of Transition Metals"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47, No 2, 1966, pp 143-155.

Abstract: [English article; Part 7 was published in J. Inorg. Nucl. Chem., Vol 28, 1966, p 139] The stability conditions of the acetylacetonedioxime complexes of trivalent cobalt, bivalent nickel, and bivalent copper; and of the acetaldioxime complex of bivalent copper were investigated. The mechanisms involved were discussed. The authors thank Mr. E. Antal for his assistance in the experiments. Orig. art. has: 5 figures, 31 formulas and 2 tables.
JPRS: 36,062]

TOPIC TAGS: organic oxine compound, chelate compound

SUB CODE: 07 / SUBM DATE: 30 Mar 65 / ORIG REF: 001 / OTH REF: 014

Card 1/1 MJO

0971 1515

KUFUDAKIS, Charalambos, promovany ekonom; RUFERT, Svatopluk, dr.;
STERNBERG, Jaroslav

Use of the involved work units in the enterprise management.
Prum potravin 13 no.4:176-177 Ap '62.

1. Vyzkumny ustav potravinarskeho prumyslu, Praha.

RUFERT, S.

A new wage system for workers in the food industry and organizations concerned with buying agricultural produce. p. 66

PRUMYSL, POTRAVIN. Praha, Czechoslovakia, Vol. 10, no. 2, February 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 8, No. 7, July 1959.
Uncl.

RUFERT, S.

Types of wages. p. 143. (PRUMYSL POTRAVIN, Vol. 7, No. 4, 1956, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Unclassified.

Rufert, S.

Rufert, S. Economic aspects of labor, especially wage problems in the food industry, in the light of proceedings and decisions at the 2d National Conference of the Communist Party of Czechoslovakia. (To be contd.) p.3.

Vol. 8, no. 1, 1957.
PRUMYSL POTRAVIN
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, No. 5, May 1957

CEPELA, Josef; FORMAN, Rudolf; RUFERT, Svatopluk, dr.

The technical organization standards. Prum potravin 13 no.6:
281-286 Je '62.

1. Sdruzeni cukrovaru, Praha (for Cepela). 2. Vyskumnny ustav
ekonomiky potravinarskeho prumyslu, Praha (for Forman and Rufert).

BORAK, Emil, dr.; RUFERT, Svatopluk

Calculation of the standards of work involved by means of
punched card machines. Prace mzda 10 no.10:459-465 0 '62.

1. Vyzkumny ustav ekonomiky potravinarskeho prumyslu, Praha.

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2"

BURGER, Kalman, dr. (Budapest, VIII., Muzeum korut 4/b); RUFF,
Imre (Budapest, VIII., Muzeum korut 4/b)

Some theoretical and practical problems in the use of
organic reagents in chemical analysis. Pt.3. Acta chimica
Hung 41 no.1/2:75-89 '64.

1. Institute of Inorganic and Analytical Chemistry of
Lorand Eotvos University, Budapest.

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2"

L 33617-66 EWP(j) RM

ACC NR: AP6025012

SOURCE CODE: HU/0005/65/071/011/0472/0475

39

B

AUTHOR: Burgar, Kalman; Egyed, Ildiko; Ruff, Imre

ORG: Department of Inorganic and Analytical Chemistry, Eotvos Lorand University of Sciences, Budapest (Eotvos Lorand Tudomanyegyetem Szervotlenes Analitikai-Kemiai Tanszeka)

TITLE: Some theoretical and practical problems in the use of organic reagents in chemical analysis. VII. Investigations of the transition metal complexes of pyridine-2-aldoxime

SOURCE: Magyar Kemiai folyoirat, v. 71, no. 11, 1965, 472-475

TOPIC TAGS: organometallic compound, proton resonance, pyridine

ABSTRACT:
The composition of the mononuclear pyridine-2-aldoxime complexes of 3 d₅ - 3 d₁₀ transition metals formed in neutral solution were determined. The successive stability constants of the manganese(II), cobalt(II), nickel(II), and zinc(II) complexes were measured. It was proved on the basis of magnetic proton resonance measurements that in its iron(II) and cobalt(II) complexes pyridine-2-aldoxime is a ligand with a strong ligand field, in the nickel(II) complex a ligand with a weak ligand field. Orig. art. has: 3 figures and 4 tables. [JPRS: 33.906]

SUB CODE: 07 / SUBM DATE: 05Mar65 / OTH REF: 021

Card 1/1

02/6 0177

L 63745-65 EWP(j)/T RM
ACCESSION NR: AT5021743

HU/2502/64/041/01-/0075/0089

12
11
B+1

AUTHOR: Burger, Kalman (Doctor)(Budapest); Ruff, Imre (Ruf, I.)(Budapest)

TITLE: Some theoretical and practical problems in the use of organic reagents in chemical analysis. Part 3: Investigation of the mixed complexes of cobalt dimethylglyoxime

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 1-2, 1964,
75-89

TOPIC TAGS: spectrophotometry, cobalt compound

ABSTRACT: [English article] The composition and stability constants of bivalent and trivalent dimethylglyoxime complexes were investigated with the aid of infrared and ultraviolet spectrophotometry. A relation between the formation rate of the mixed complex and the thiocyanate concentration was discovered. The mixed complex was shown to have a maximum in the absorption spectrum at wave number 30300.

Orig. art. has: 13 graphs, 10 formulas.

Card 1/2

L 63745-65

ACCESSION NR: AT5021743

ASSOCIATION: Institute of Inorganic and Analytical Chemistry, L. Eotvos
University, Budapest

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE: OC, GC

NR REF Sov: 002

OTHER: 016

JPRS

Card 2/2

PA 28/49T84

RUFFEL', A. A.

USSR/Medicine - Water, Pollution Aug 48
Medicine - Water, Purification

"All-Union Scientific Conference on Problems of
Preventing Contamination of Water Reservoirs by
Industrial Waste Products and Soil Hygiene," "A. A.
Ruffel', 1 $\frac{1}{2}$ pp

"Gig i San" No 8

Conference held 25-29 May 48 was attended by members
of various scientific research institutions. Dis-
cussed general reports and 11 reports on influence
of industrial waste products on water reservoirs
and their self-purification. Details proceedings.

FDB

28/49T84

RUFFEL'. M.

29233 Vsesoyuznaya nauchnaya konferentsiya po voprosam sanitarnoy okhrany vodoyemov ot zagryazneniya promyshlennymi stochnymi vodami. (Moskva. May 1949 g.) Gigiyena i sanitariya, 1949, No 8, s. 52-54

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2

RUFFEL 'M.A.

DECEASED
c1960

1962/4

SEE ILC

HYGIENE & SANITATION

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2"

RUFFEL', N. A.

USSR/Engineering
Cranes
Construction Machinery

Jul 47

"Lifting and Carrying Mechanisms for Small Construction," N. F. Yermakov, Cand Tech Sci, N. A. Ruffel', Engr, 4½ pp

"Mekhanizatsiya Stroitel'stva" No 7

Lists the various types of cranes used in construction work of building not over two stories high. The particular uses for which each type of crane is best suited are discussed, and tables on cost, manpower saved, etc., are presented.

PA28T30

IVYANSKIY, G.B., NEYMAN, YA. M., RUFFEL', N.A.

Mixing Machinery

Mixing machines on construction sites. Stroi. prom. 29 no. 12, 1951.

9. Monthly List of Russian Accessions, Library of Congress, August ² 1951, Uncl.

RUFFEL', N.A.

[Plasterer, facade worker and modeler] Shtukatur-fesadchik-lepshchik.
Dopushcheno v kachestve ucheb. posobiia dlia remeslennykh uchilishch
stroit. promyshl. Moskva, Trudrezervisdat, 1953. 310 p. (MIRA 7:1)
(Plaster) (Architecture--Details)

SAMODAYEV, Ye.T.; RUFFEL', N.A., nauchnyy redaktor; BEKETOVA, Ye.M.,
redaktor; TUKER, A.M., tekhnicheskiy redaktor

[Roof work] Krovel'nye raboty. Moskva, Gos. izd-vo lit-ry po stroitel'-
stvu i arkhitekture, 1954. 270 p.
(Roofing)

RUFEL', V.I.
BAUMAN, V.A., kandidat tekhnicheskikh nauk, laureat Stalinskoy premii,
redaktor: RUFFEL', N.A., dotsent, retsenzent; KRYUKOV, V.L., in-
zhener, redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Building machinery; handbook] Stroitel'nye mashiny; spravochnik.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954.
915 p.

(MLRA 7:11)

(Building machinery)

RUDERMAN, Arkadiy Georgiyevich; RUFFEL', N.A., redaktor; KONTSEVAYA, E.M., redaktor; KRYNOCHKINA, K.V., tekhnicheskiy redaktor.

[Modern methods in roofing) Sovremenyye metody krovel'nykh rabot. Moskva. Vses.uchebno-pedagog. izd-vo Trudrezervizdat, 1955. 58 p.

(MLRA 8:8)

(Roofing)

ZHELUDKOV, Vladimir Ivanovich, inzhener; RUFFEL', N.A., redaktor;
NEPOMNYASHCHAYA, T.F., redaktor; TOKER, A.M., tekhnicheskij
redaktor.

[Advanced methods of finishing buildings] Progressivnye sposoby
otdelki zdanii. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit.
1955. 151 p.
(Building)

TOROPOV, Aleksandr Sergeyevich, kandidat tekhnicheskikh nauk; RUFFEL', N.A., redaktor; SOKOLOVA, M.A., redaktor; RAKOV, S.I., tekhnicheskiy redaktor.

[Roofing handling rigid and pliant roofing materials] Krovel'shchik po zhestkim i miagkim krovliam. Moskva, Vses.uchebne-pedagog. izd-vo Trudrezervizdat, 1955. 295 p. (MLRA 9:4) (Roofing)

RUFFEL', N.A., dotsent, redaktor; ZAYTSEV, A.G., kandidat tekhnicheskikh nauk, redaktor; BEGAK, B.A., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Over-all mechanization of construction work; reference manual. Kompleksnaia mekhanizatsia stroitel'nykh rabot: spravochnoe posobie. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture. Vol. 3] [Concrete and reinforced concrete work, installations of steel and reinforced concrete construction elements, plastering] Betonnye i zhelezobetonnye raboty, montazh stal'nykh i zhelezobetonnykh konstruktsii shtukaturnye raboty. 1955. 296 p. (Building machinery)

TEMKO, Yuliy Petrovich; RUFFEL', N.A., nauchn. red.; BEREZOVSKAYA,
A.L., ved. red.

[Plastering] Shtukaturnye raboty. Moskva, Vysshiaia
shkola, 1964. 382 p. (MIRA 17:9)

MUKHORTOV, Ivan Danilovich; RUFFEL', N.A., red.;

[Air-hardening lime for finishing buildings] Vozdushnaya
izvest' v otdelke zdanii. Moskva, Izd-vo MKKh RSFSR, 1964.
60 p. (MIRA 17:5)

BLOKHIN, Boris Nikolayevich; SMIRNOV, N.A., prof., retsenzent; SPIRIDONOVA, O.M., dots., kand. tekhn.nauk, retsenzent; CHERNOV, T.P., prof., retsenzent; FREDTECHENSKIY, V.M., prof., doktor tekhn. nauk, retsenzent; RUFFEL', N.A., dots., retsenzent; ZAYTSEV, A.G., prof., retsenzent; DROZDOV, A.G., inzh.; GALITSKIY, V.N., inzh., retsenzent; ZHELUDKOV, V.I., inzh., nauchn. red.; LYTKINA, L.S., red.; DASIMOV, D.Ya., tekhn. red.

[Technology of the construction industry] Tekhnologija stroitel'nogo proizvodstva. Moskva, Gosstroizdat, 1963. 263 p.
(MIRA 17:1)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
2. Kafedra stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Spiridonova). 3. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva (for Chernov). 4. Moskovskiy inzhenerno-stroitel'nyy institut imeni V.V.Kuybysheva (for Fredtechenskiy, Ruffel'). 5. Zaveduyushchiy kafedroy stroitel'nykh materialov Moskovskogo arkhitekturnogo instituta (for Zaytsev). 6. Glavnyy inzhener Moskovskogo arkhitekturno-planirovochnogo upravleniya (for Drozdov). 7. Direktor Moskovskogo domostroitel'nogo kombinata No.1 (for Galitskiy).

BOLOBAN, Nikolay Aleksandrovich; BELEVICH, Vladimir Borisovich;
VELIKOTSKIY, Aleksandr Nikolayevich; MACHABELI, Shota
Levanovich; RUFFEL', N.A., nauchn. red.; ZVORYKINA, L.N.,
red.; MIKHEYEVA, A.A., tekhn. red.

[Assembling precast concrete structures] Montazh sbornykh
zhelezobetonykh konstruktsii. [By] N.A. Boloban. i dr.
Moskva, Gosstroiizdat, 1963. 344 p. (MIRA 16:10)
(Precast concrete construction)

BLOKHIN, Boris Nikolayevich, prof.; GALAKTIONOV, Aleksandr Alekseyevich, dots.; VOROB'YEV, V.A., prof., retsenzent; KHIGEROVICH, M.I., prof., retsenzent; IVANOV, O.M., dots., retsenzent; RUFFEL', N.A., dots., retsenzent; KOKIN, A.D., retsenzent; ZHELUDKOV, V.I., inzh., nauchnyy red.; LYTKINA, L.S., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Finishing materials and operations] Otdelochnye materialy i raboty. Moskva, Gosstroizdat, 1962. 275 p. (MIRA 15:7)

1. Zaveduyushchiy kafedroy "Organicheskiye stroitel'nyye materialy i plastmassy" Moskovskogo inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva (for Vorob'yev). 2. Kafedra "Stroitel'nyye materialy" Moskovskogo inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva (for Khigerovich, Ivanov).
3. Kafedra "Tekhnologiya stroitel'nogo proizvodstva" Moskovskogo inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva (for Ruffel'). 4. Glavnnyy inzhener Upravleniya otdelochnykh rabot Glavnogo upravleniya po stroitel'stvu i vosstanovleniyu zheleznodorozhnykh mostov (for Kokin).

(Building--Details)

Реф. № 4.

IVYANSKIY, Grigoriy Borisovich; kand.tekhn.nauk; RUFFEL', N.A., dotsent,
nauchnyy red.; YUDINA, L.A., red.izdatel'stva; BOROVNEV, N.K.,
tekhn.red.; EL'KINA, E.M., tekhn.red.

[Conveying mortars by pipe in building] Transport stroitel'nykh
rastvorov po trubam. Moskva, Gos.izd-vo lit-ry po stroit.i arkhit..
1957. 152 p. (MIRA 10:12)

(Mortar--Transportation)

RUFER

3

✓ Relation between activity of digitoxin and some biological factors. B. Mošinger, M. Špačková, and F. Ruffer (Pharm. Control Inst., Prague) *Arch. exp. Pathol. Pharmakol.* 230, 45-50 (1957). Young guinea pigs are more resistant against digitoxin than older animals. The relation of the lethal dose with reference to body wt increase the influence of the higher resistance of young animals. The influence of the higher resistance of young animals is eliminated if the dose is referred to body surface. This permits the use of animals of 100-800 g. A. b. M.

RUFFERT, Svatopluk, dr., CSc.

Effect of the new technology on the nature of the work in the food industry. Prace mzda 12 no.1:31-36 Ja '64.

1. Vyzkumny ustav ekonomiky potravinarskeho prumyslu, Praha.

BURGER, Kalman; RUFF, Imre; RUFF, Ferenc

Effect of the formation of tetragonal bipyramidal mixed complexes
on the structure and stability conditions of cobalt (II)-dimethyl-
glyoxime. Magy kem folyoir 70 no.9:394-400 S '64.

1. Chair of Inorganic and Analytic Chemistry, Lorand Eotvos
University, Budapest, and Chair of Inorganic Chemistry, Lorand
Eotvos University, Budapest.

I 37730-66 EWP(1) RM
ACC NR: AT6028244

SOURCE CODE: HU/2502/65/046/001/0001/0020

AUTHOR: Burger, Kalman (Doctor; Budapest); Ruff, Ferenc (Doctor; Budapest);
Ruff, Imre (Doctor; Budapest); Egyed, Ildiko—Ed'yed, I. (Budapest)

66

B+1

ORG: Department of Inorganic and Analytical Chemistry, L. Eotvos University,
Budapest; Department of Organic Chemistry, L. Eotvos University, Budapest

TITLE: Some theoretical and practical problems in the use of organic reagents in
chemical analysis. Part VI. Hydrogen bridges and donor pi bonds in the salicylaldoxime
complexes of transition metals

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 46, no. 1, 1965, 1-20

TOPIC TAGS: pi bonded organometallic compound, IR spectrum, UV spectrum, chemical
bonding, dissociation constant, spectrophotometric analysis

ABSTRACT: The infrared and ultraviolet absorption spectra of 5-methyl-, 5-chloro-
and 5-nitrosalicylaldoxime and their Mn(II), Fe(II), Co(II), Ni(II), Cu(II) and
Zn(II) complexes have been investigated. Infrared spectra show the presence of a
donor pi bond between the transition metal central atom and the oxime group of the
ligand. The presence of stable intramolecular H bridges has been detected in the
complexes. The stability of hydrogen bridges decreases in the order $\text{CH}_3 > \text{H} > \text{Cl} >$
 NO_2 . In the Cu(II) and Ni(II) complexes an asymmetric hydrogen bridge is found.
In all other complexes the H bond is symmetrical. The acid dissociation constants
of the ligands have been calculated from the data of ultraviolet spectrophotometric
measurements. Orig. art. has: 22 figures and 5 tables. [Orig. art. in Eng.]

[JPRS: 33,906]

SUB CODE: 07 / SUBM DATE: 27Oct64 / ORIG REF: 005 / OTH REF: 008

Card 1/1 PB

1829

0917

5

L 11684-66

SHP(e)/SHP(j)/SHP(l)/SHP(m)

ACC NR: AT6031099

SOURCE CODE: HU/2502/05/0457 001

AUTHOR: Burger, Kalman (Doctor); Ruff, Imre (Doctor)

ORG: Institute of Inorganic and Analytical Chemistry, Eotvos Lorand University,
Budapest (Eotvos Lorand Tudomanyegyetem, Szervetlen es Analitikai Kemiai Intezet)

38

B+1

TITLE: New, selective micromethods in the analysis of metals. III. Selectivity
of reactions based on complex formation. New, specific method for the determination
of minute amounts of cobalt

SOURCE: Academia scientiarum Hungaricae. Acta chimica, v. 43, no. 2, 1965, 77-86

TOPIC TAGS: metal chemical analysis, cobalt, coordination chemistry, spectrophotometric
analysis, organocobalt compoundABSTRACT: The prerequisites of the analytical selectivity of reactions based on
complex formation are discussed, from the aspect of complex chemistry, in the
introduction. From investigations of coordination chemistry, a novel specific
method has been developed for the spectrophotometric measurement of minute
amounts of cobalt. Cobalt^{II} is determined in the sample by measuring the absorption
of the mixed complex, diiodo-bis-(dimethylglyoximato) cobaltate(II) at 435 nm,
the position of maximal absorption. By small modifications, the method can be
rendered applicable even if other metals (Mn, Fe, Ni, Cu, Zn, Cd, Ca, Mg or Bi)
are present in quantities exceeding the amount of cobalt present several hundred-fold.
Orig. art. has: 2 figures and 1 table. [Orig. art. in Eng.] [JPRS: 33,540]

SUB CODE: 11, 07 / SUBM DATE: 20May64 / ORIG REF: 001 / SOV REF: 002

OTH REF: 015

Card 1/1 at

0918 2319

L 41775-65 EWP(J) RM
ACC NR: AP6031683

SOURCE CODE: HU/0005/65/071/010/0437/0442

25

B

AUTHOR: Ruff, Imre; Burger, Kalman

ORG: Department for Inorganic and Analytical Chemistry, Eotvos Lorand Scientific University, Budapest (Eotvos Lorand Tudomanyegyetem Szervetlen- és Analitikai-Kemiai Tanszeka)

TITLE: Some theoretical and practical problems in the analytical applications of organic reagents. Part 8: Effect of the chelate-effect and of ring size on the stability of the dioxime complexes of transition metals

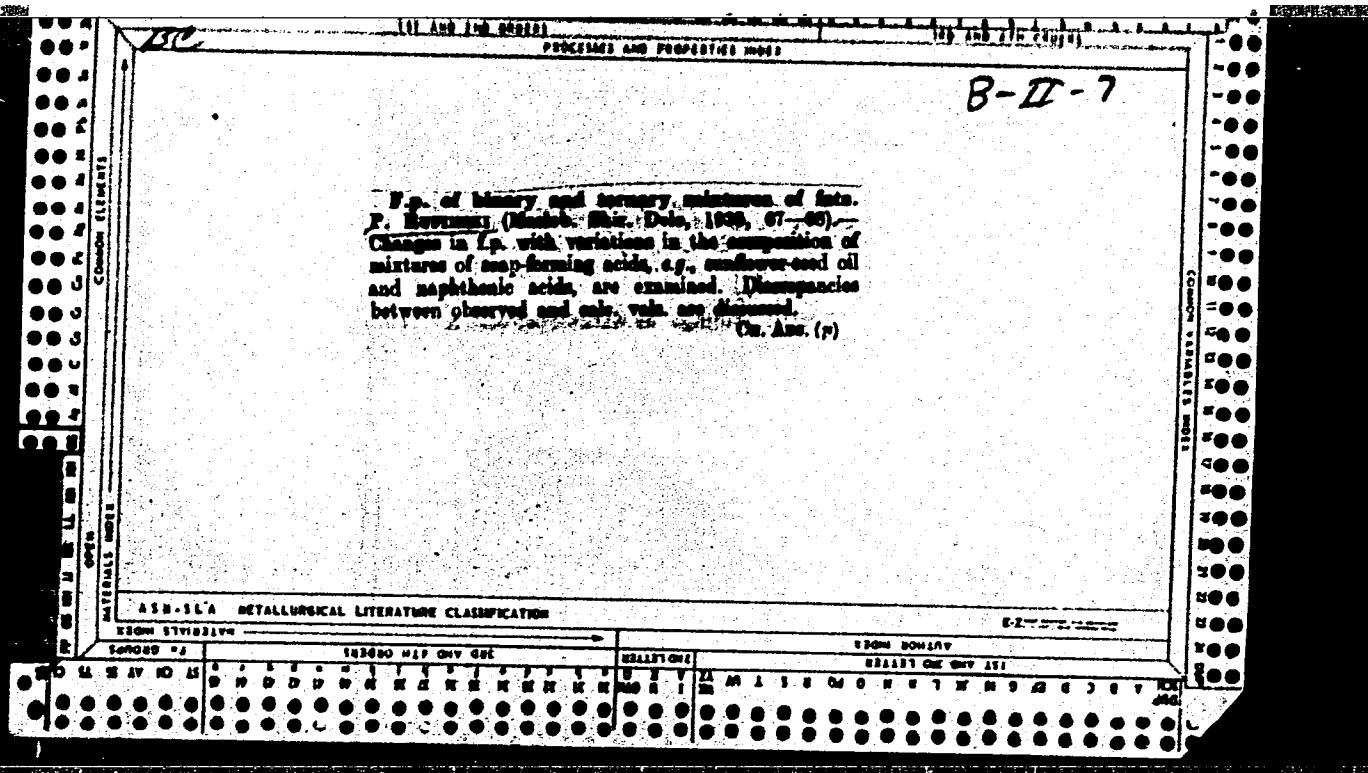
SOURCE: Magyar kemial folyoirat, v. 71, no. 10, 1965, 437-442

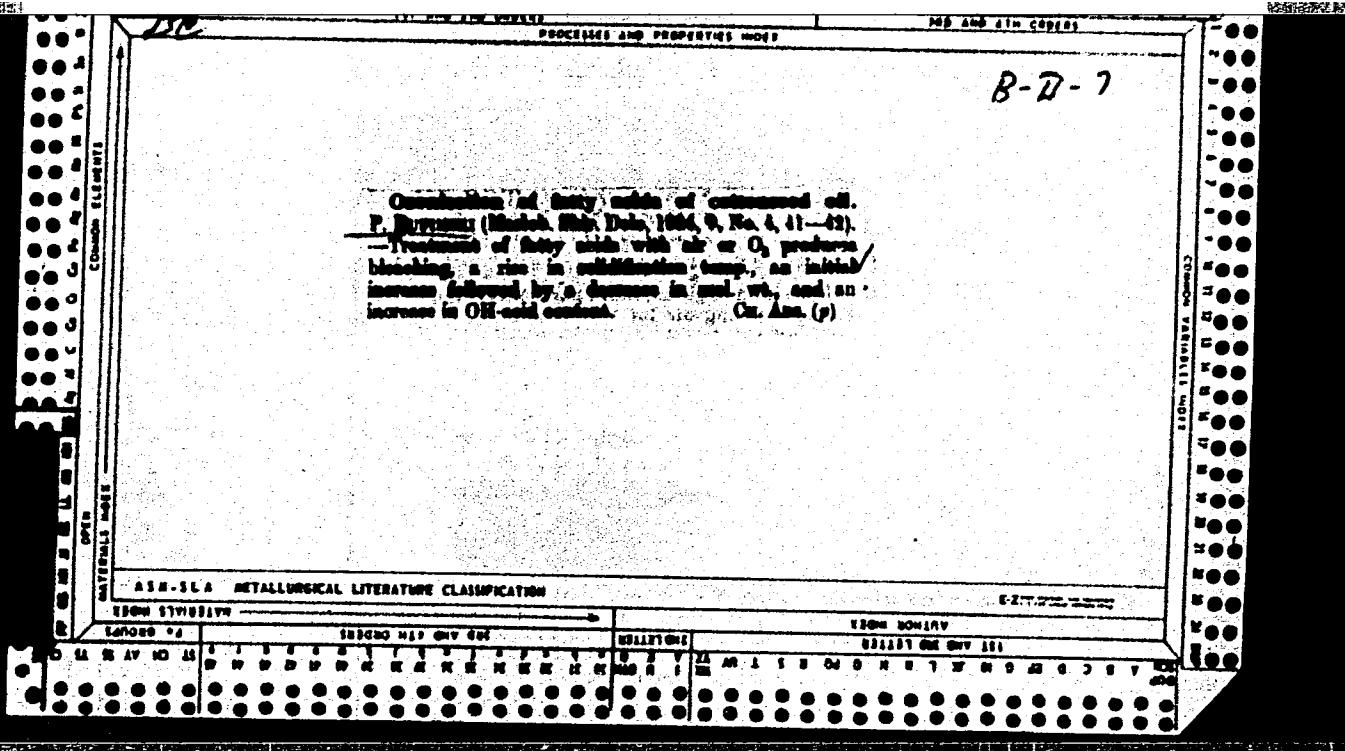
TOPIC TAGS: chelate compound, chemical stability, organic oxime compound

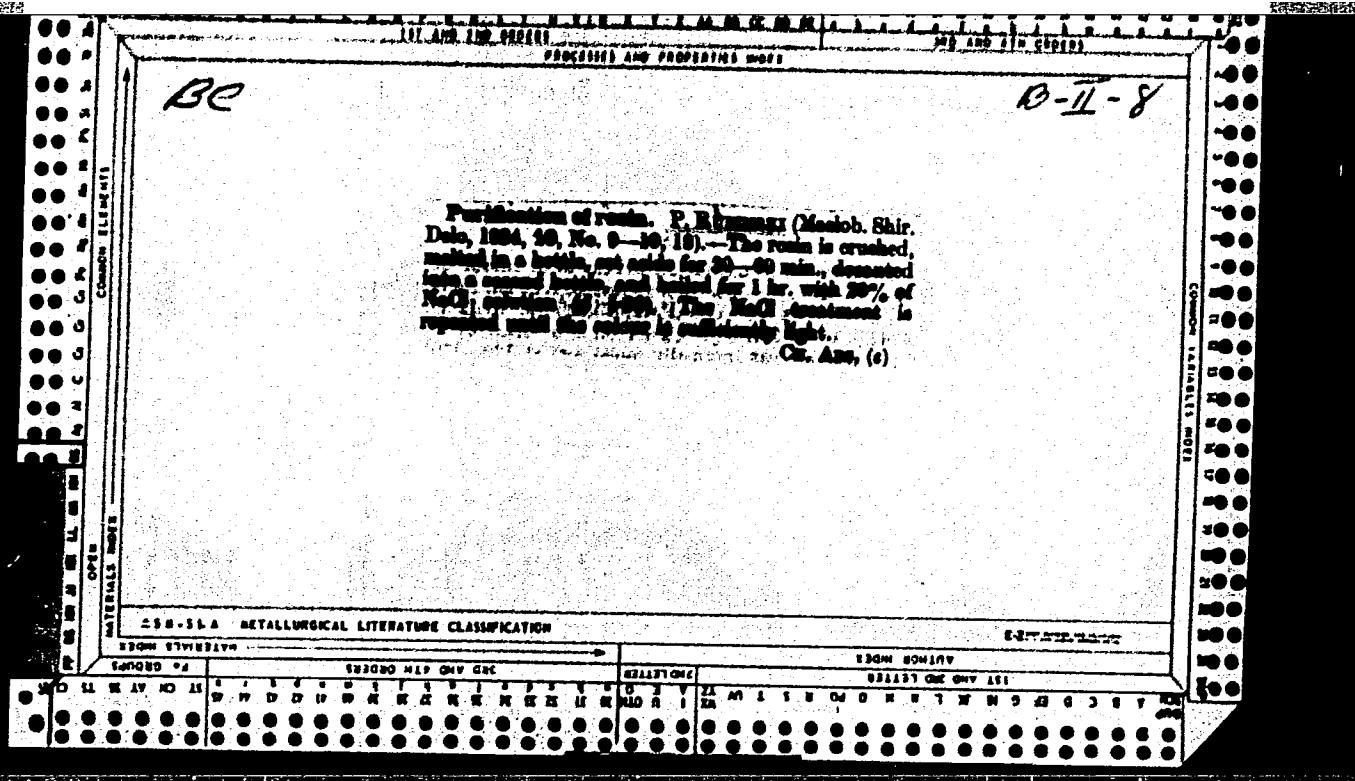
ABSTRACT: The acetylacetone-dioxime complexes of bivalent cobalt, nickel, and copper were found to be less stable than the acetaldoxime complexes. This differential was interpreted in terms of differences in the chelate ring conjugation strength and in the ring size. The acetylacetone-dioxime complex of bivalent nickel was found to be diamagnetic. The significance of the findings in the analytical applications of the complexes studied was discussed. The authors thank Antal Emil for assistance in this work. Orig. art. has: 5 figures, 31 formulas and 2 tables. [JPRS: 33,540]

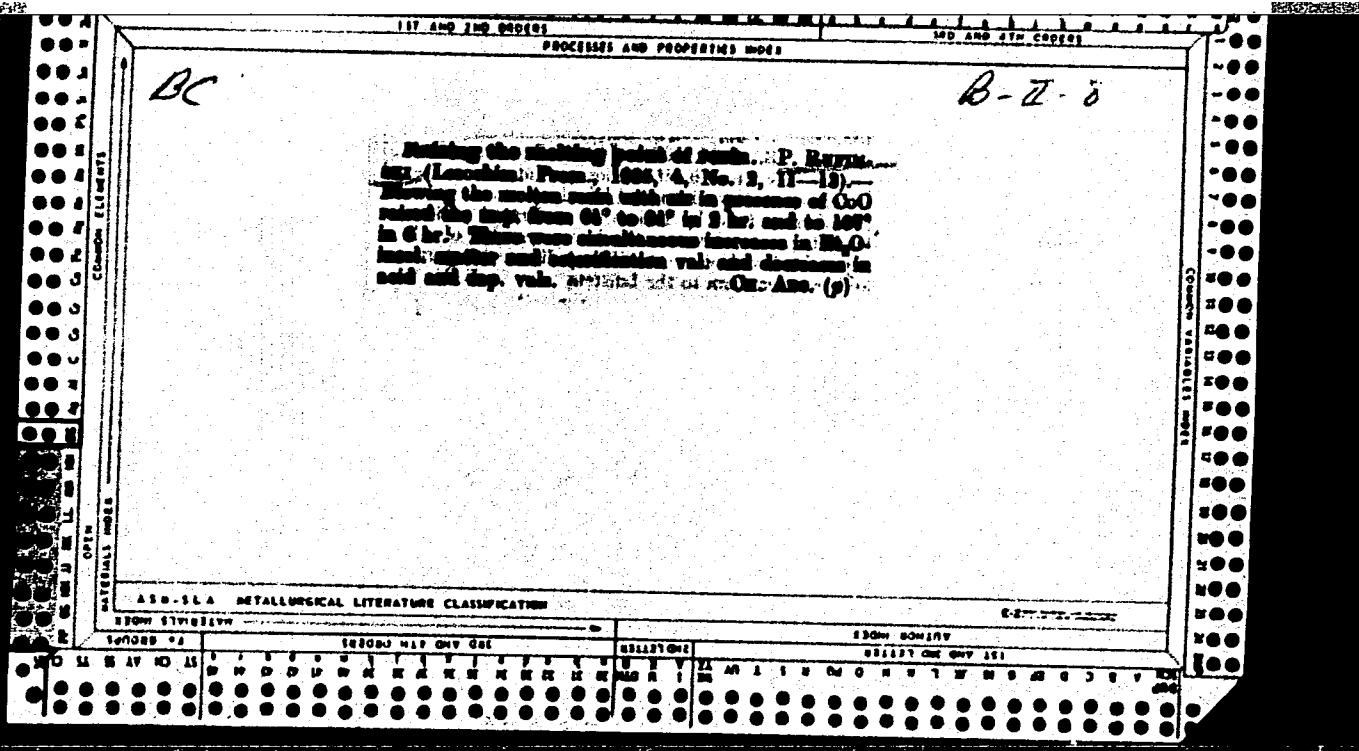
SUB CODE: 07 / SUBM DATE: 29Mar65 / ORIG REF: 001 / OTH REF: 014

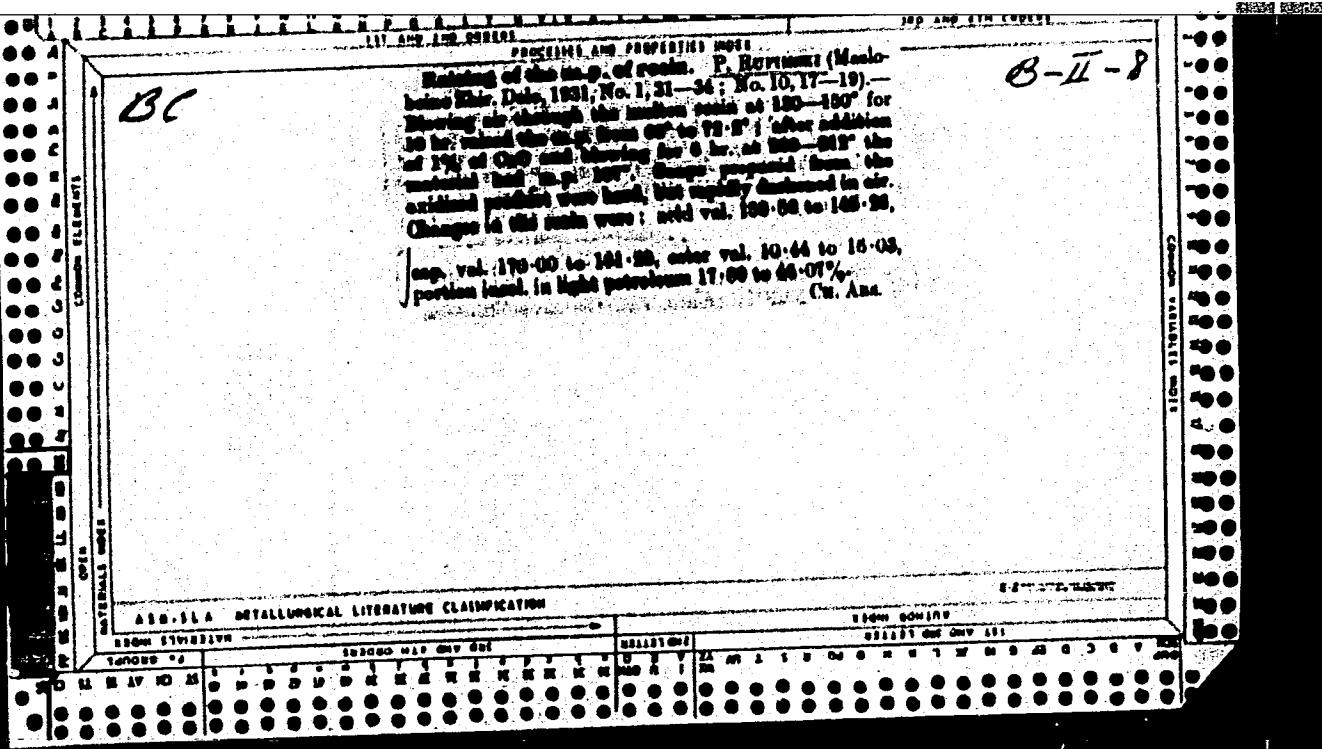
Card 1/1

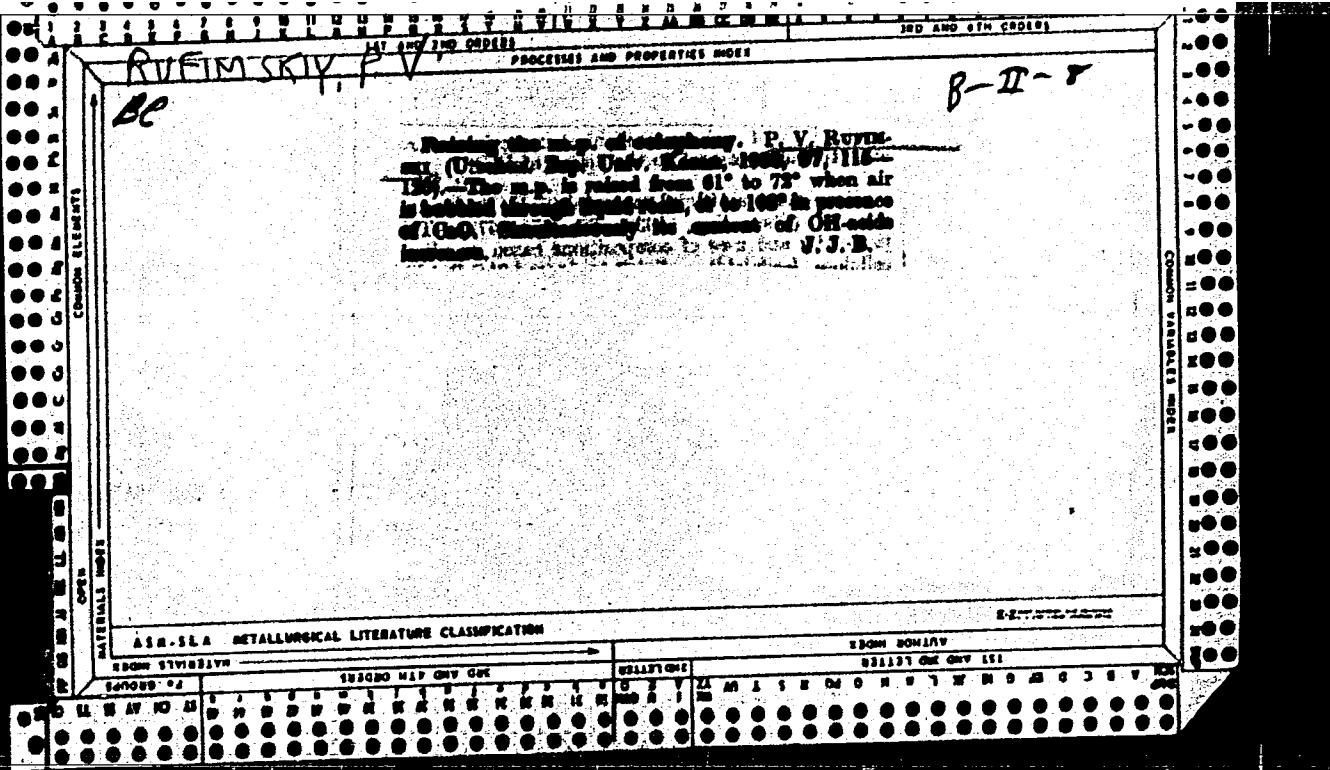












5(4)

SOV/69-21-3-20/25

AUTHOR: Rufimskiy, P.V.

TITLE: A Study of the Aluminum Hydroxide Hydrosol -
5. Experimental Application of Thermography in the
Study of a Thixotropic Al_2O_3 Gels

PERIODICAL: Kolloidnyy zhurnal, 1959, Vol XXI, Nr 3, pp 351-353
(USSR)

ABSTRACT: The author tried to apply a physico-chemical method, in particular thermography, to the study of thixotropic Al_2O_3 hydrogels. Objects of the study were two modifications of Al_2O_3 gel, which were obtained by the Willstätter method. The author considered three internal effects possibly resulting from thermal destruction of the gels: 1) the effect produced by the loss of capillary water; 2) the effect resulting from the loss of the water of the hydrated micelle sheaths and the disintegration of the nuclear structure of the gel; 3) the effect produced by the loss of the nuclear water. The experiments suggest

Card 1/3

SOV/69-21-3-20/25

A Study of the Aluminum Hydroxide Hydrosol - 5. Experimental Application of Thermography in the Study of a Thixotropic Al_2O_3

Gels

the assumption that the gels lose their capillary water at 140°C . At 230°C the hydrated sheaths of their micelles are destroyed. The loss of nuclear water occurs at 420°C , and at 500°C . The compensating ions of the micelle disintegrate. The author refers to the Soviet scientists S.M. Lipatov, N.V. Stepanova, R.I. Fel'dman, V.I. Nazarov, A.V. Nikolayev, I.V. Krotov. He expresses his gratitude for the help of Professor, Doctor of Chemical Sciences, A.F. Bogoyavlenkiy. There are 2 graphs and 6 references, 3 of which are Soviet, 2 German and 1 French.

Card 2/3

A Study of the Aluminum Hydroxide Hydrosol - 5. Experimental
Application of Thermography in the Study of a Thixotropic Al_2O_3
Gels

SOV/69-21-3-20/25

ASSOCIATION: Kazanskiy universitet im. Ul'yanova-Lenina - Laboratorya
neorganicheskoy khimii (Kazan' University imeni
Ul'yanov-Lenin - Laboratory of Inorganic Chemistry)

SUBMITTED: 26 April, 1957

Card 3/3

RUFINSKIY P.V.

The hydrosol of aluminum hydroxide II. Effect of sodium chloride and ethyl alcohol on the thixotropic gelation of the sol. P. V. Rufinskiy. I. L. Leon State Univ. Kazan. Kondens. Zhur. 18: 332 (1956). J. CIA 50.
Orth. Al(OH)₃ sols were prepared by hydrolysis of Al(OH)₃ in the presence of organic acids. The effect of NaCl and EtOH on the thixotropic properties of the sols was studied. It was found that the concentration of NaCl required for thixotropy was 0.01 mol/liter and 0.001 mol/liter resp. The content of EtOH had no effect on the thixotropic properties. The sols in 0.01 mol/liter EtOH showed a slight increase in viscosity at pH 10 due to the coagulation of the sol particles. J. P. Mikerian.

LPH

RUFIMSKIY, P.V.

USSR/Colloid Chemistry. Dispersion Systems.

B-14

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26393

Author : P.V. Rufimskiy

Title : Influence of Sodium Chloride and Ethyl Alcohol on Mechanical Properties of Aluminum Oxide Sol.

Orig Pub : Kolloid. zh., 1956, 18, No 5, 589 - 591

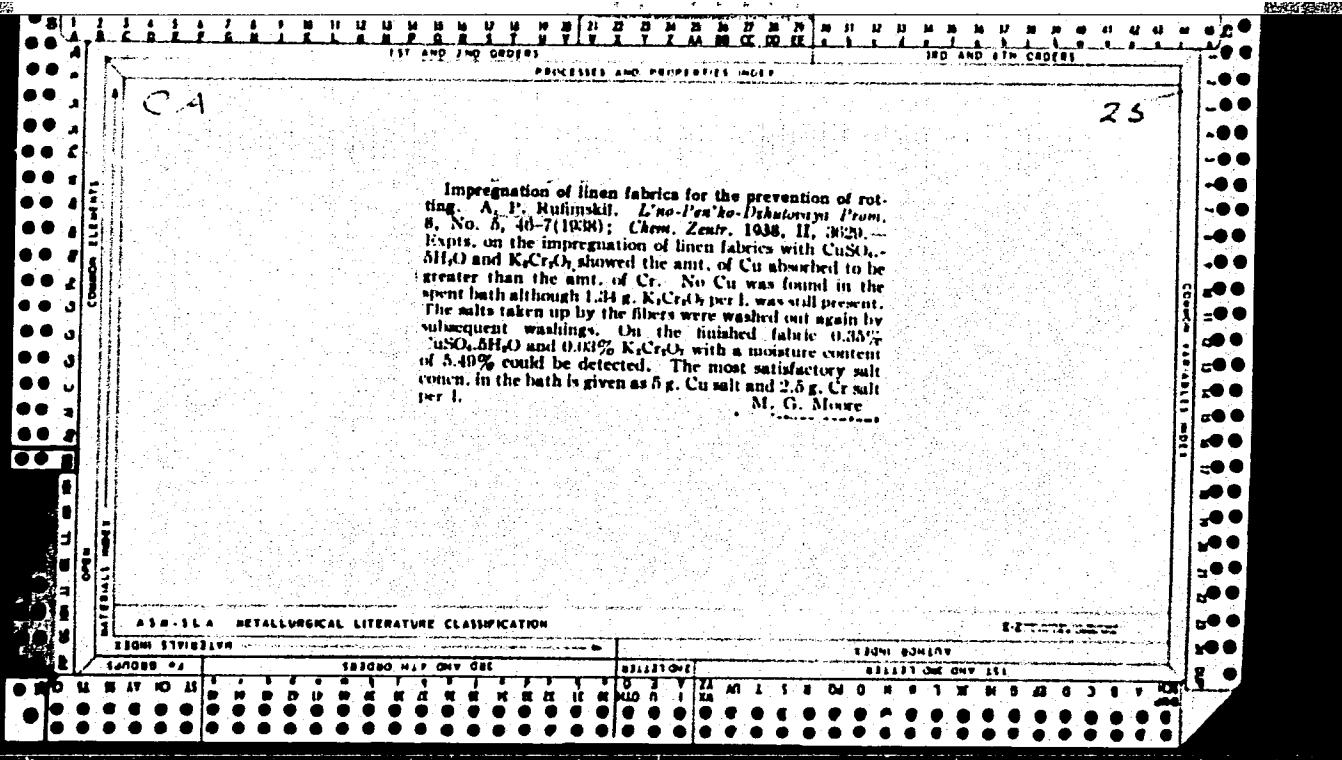
Abstract : The static displacement stress σ and the time of thixotropic coagulation of sols of aluminum hydroxide in the presence of NaCl and ethyl alcohol were determined by the method described earlier (N.N. Serb-Serbina, S.A. Nikitina, Kolloid. zh. 1948, 8, 1-2, 63) on a horizontal capillary plastometer (RZhKhim, 1957, 14984). More stable and thixostable sols are produced in the presence of alcohol than in the presence of NaCl. σ attains the highest value in 2 hours in sols with alcohol, and in sols with an electrolyte σ rises 15 min. but after that the strength of the structure decreases due to the syneresis, as it seems.

Card 1/1

RUFIMSKY, P.V.

✓ Effect of sodium chloride and ethyl alcohol on the mechanical properties of aluminum oxide soils. P. V. Rufimskiy (V. I. Ul'yanov-Lenin Univ., Kazan). Kolloid. Zhur. 18, 589-61 (1960); C.A. 51, 806. An Al_2O_3 sol was introduced into a capillary of 0.005 cm diam, and the pressure difference between the upper and lower ends of its column was measured. When 0.01 M NaCl was added, the pressure reached a maximum of 4.80 kg/cm². When 0.01 M ethyl alcohol was added, the pressure decreased to zero. The yield strength of the soil increased 1.5 times when 0.01 M NaCl decreased the water content.

KM



CN

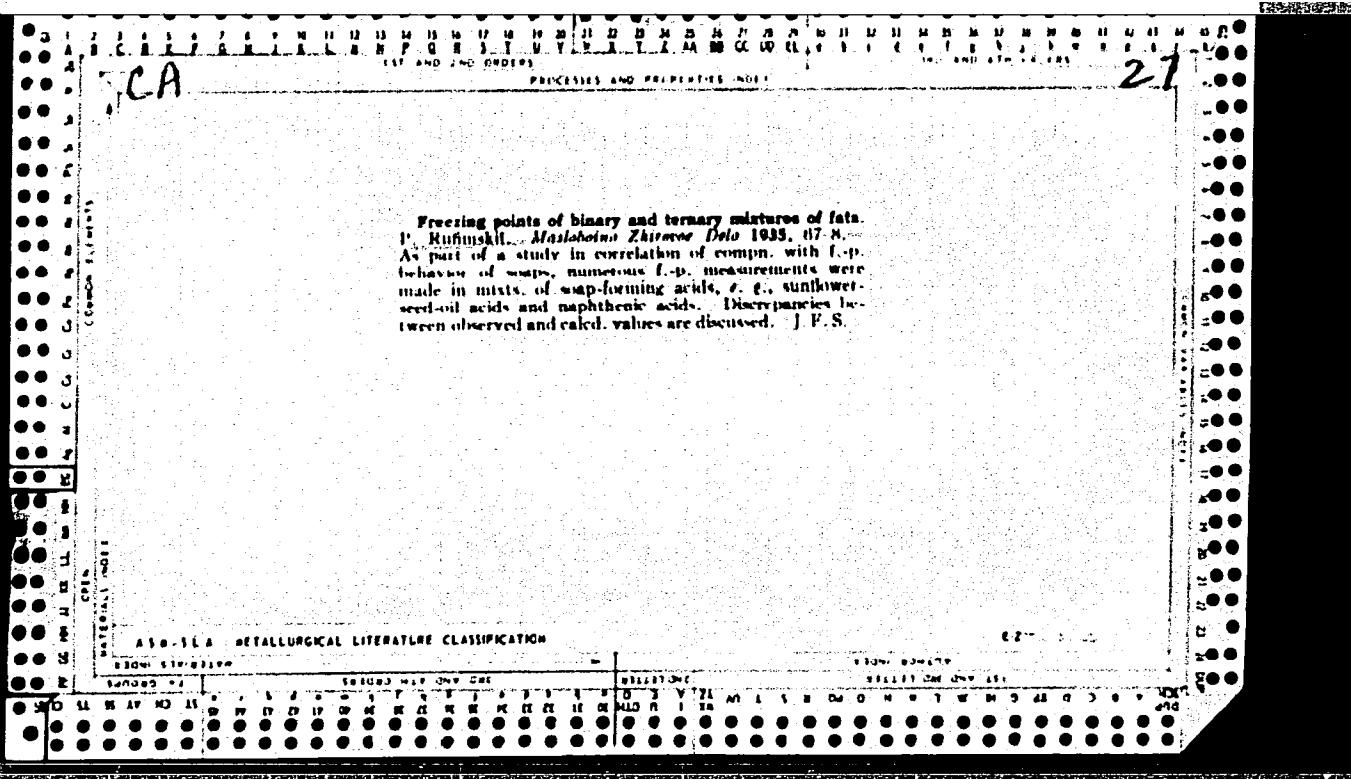
21

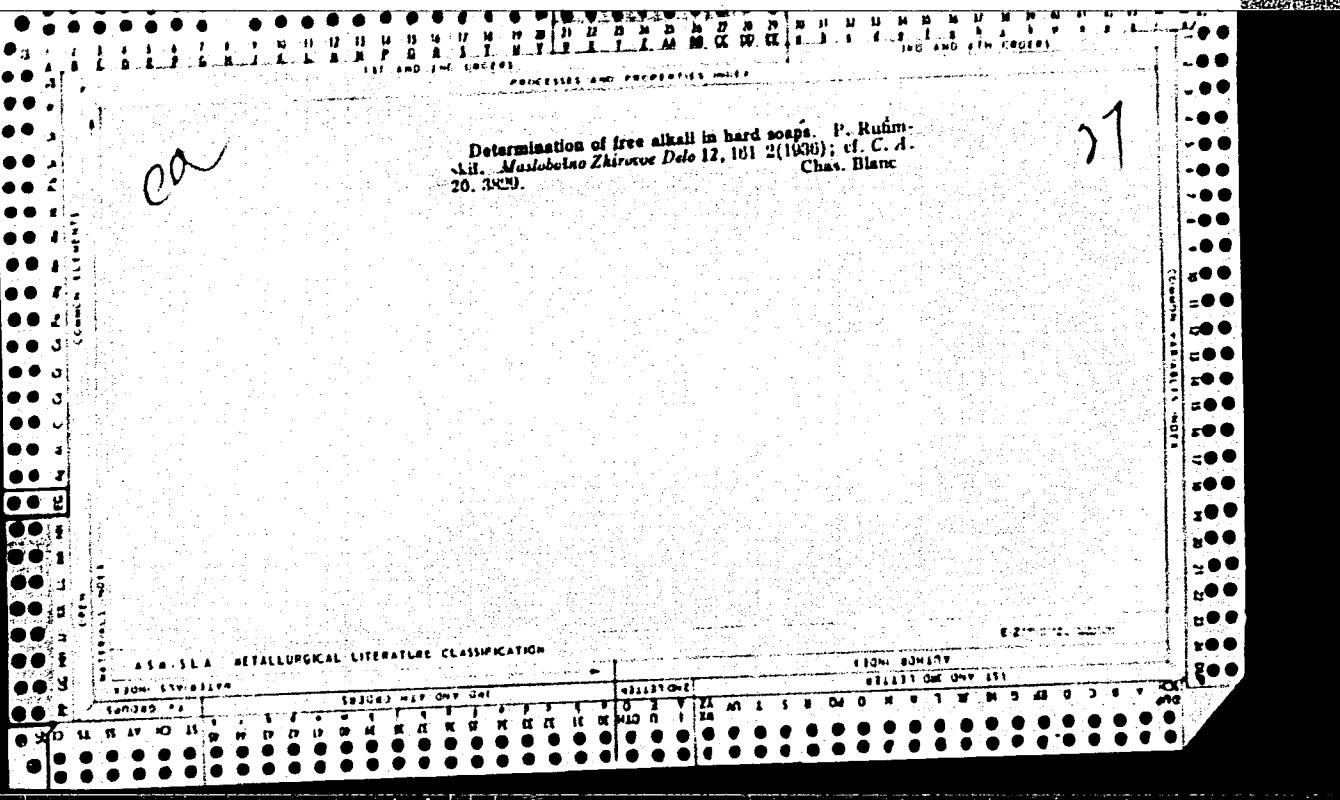
The ozonization of the fatty acids of cottonseed oil. J. RUPIMSKI, *Mashabino-Zhivote Dolo* 1932, No. 6, 53-4. The ozonization was carried out with a Siemens-Halske ozonizer (air and O₃ were used) at 77-78°. After 18 hrs. the m. p. increased from 29.0° to 37.9°; the mol. wt. decreased from 283.87 to 212.51 with ozonized air and to 178.71 with ozonized O₃; the I no. decreased from 111.48 to 8.81 (air) and 3.60 (O₃). B. B.

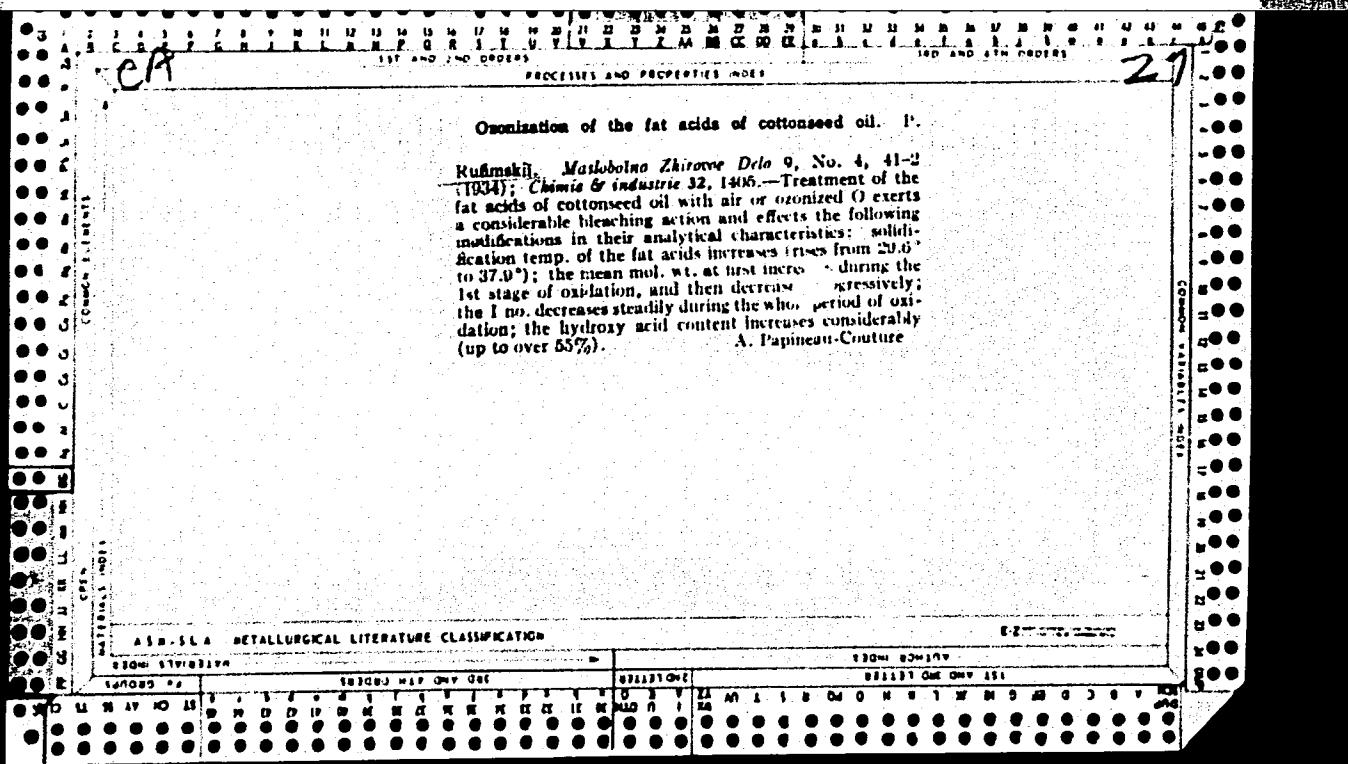
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

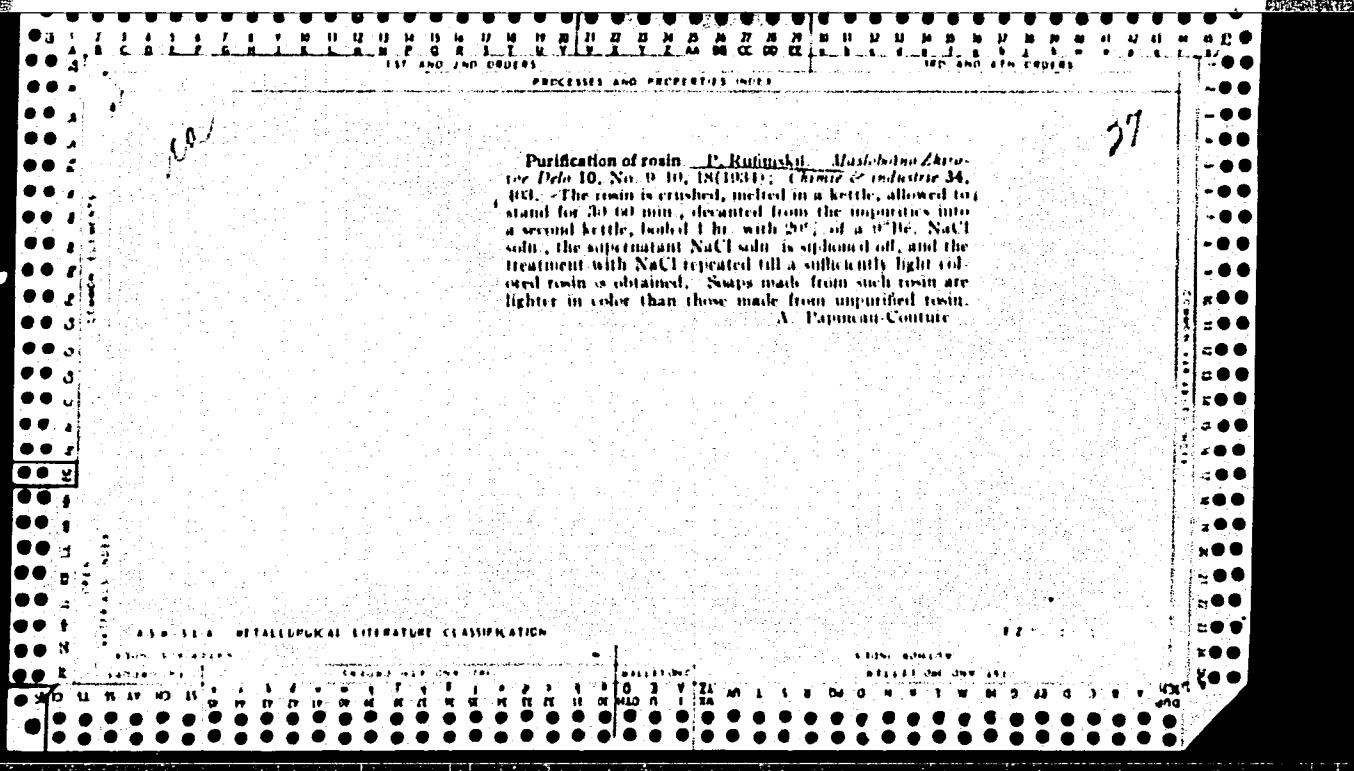
ECONOMIC

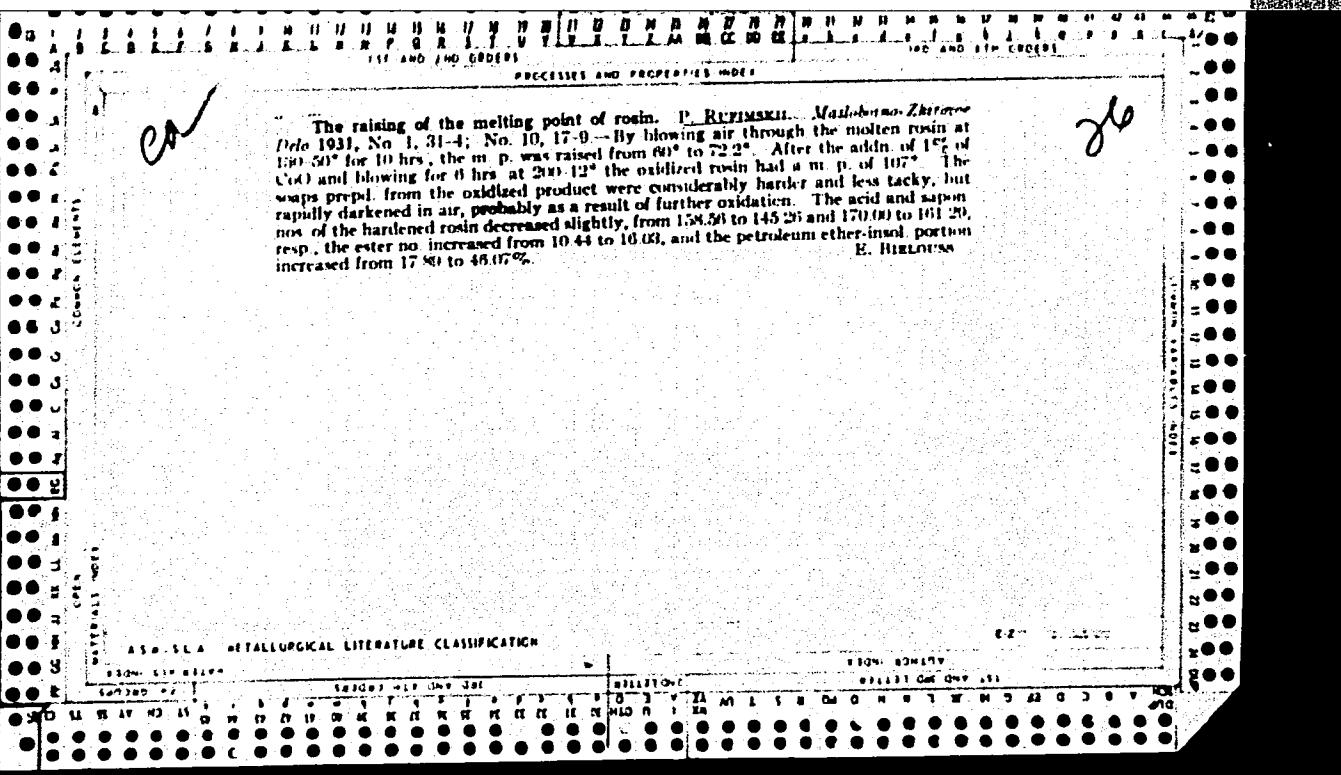
411111 CM 049 151

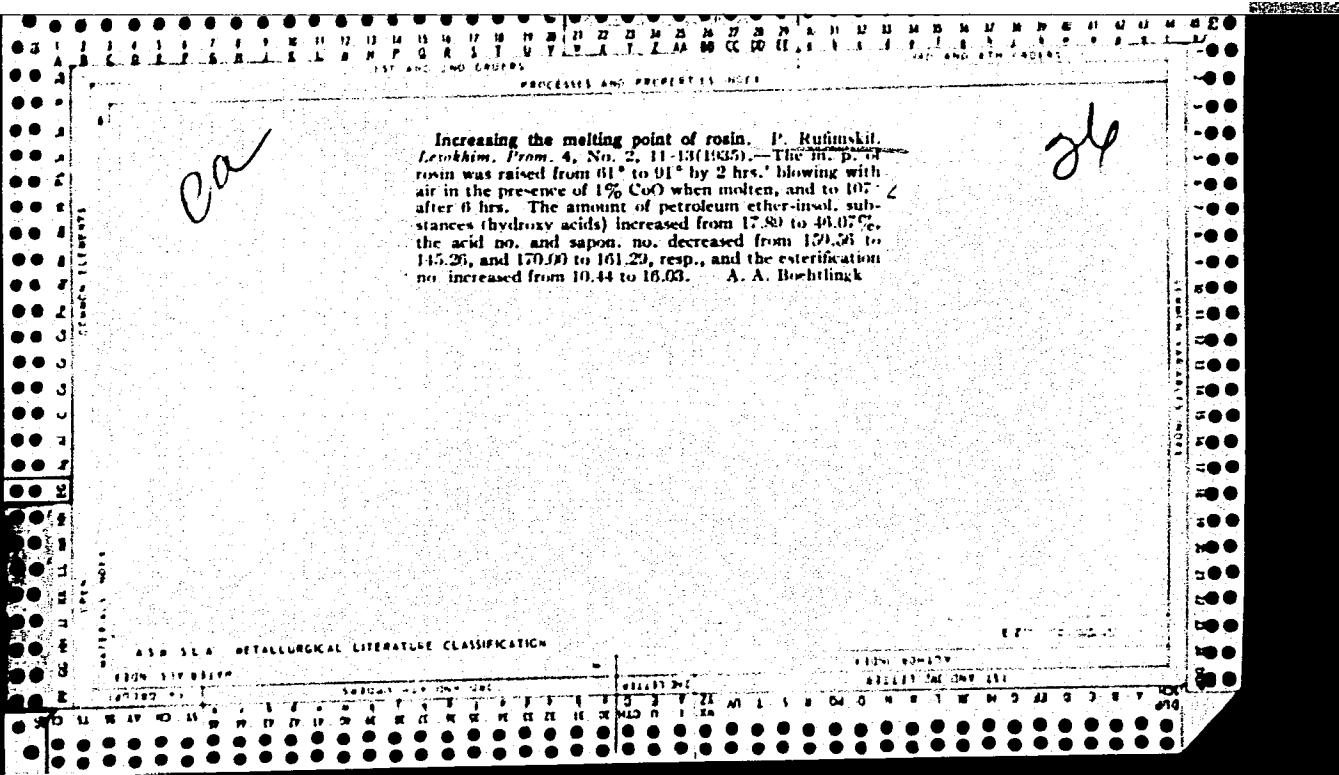












RUFIMSKIY, P.V.

Study of the aluminum hydroxide hydrosol. Part 3. The effect of sodium chloride and ethyl alcohol on the mechanical properties of the aluminum oxide sol. [with English summary in insert] Koll.zhur. 18 no.5:589-591 S-0 '56. (MLRA 9:11)

1. Kazanskiy universitet imeni V.I. Ul'yanova-Lenina, Laboratoriya neorganicheskoy khimii.
(Alumina)

AUTHOR: Rufimskiy, P.V. SOV/69-20-6-11/15

TITLE: ~~Studies of Aluminum Hydroxide Hydrosol~~ (Issledovaniye gidro-zolya gidrata okisi alyuminiya). 4. The Thixotropic Gelation of the Sol in a Mixture of Methyl Alcohol and Dioxane (4. Tiksotropnoye zastudnevaniye zolya v smesi metilovyy spirt - dioksan)

PERIODICAL: Kolloidnyy zhurnal, 1958, Vol 20, Nr 6, pp 739-741 (USSR)

ABSTRACT: The structure formation of ethyl alcohol has been studied [Ref. 17]. Methyl alcohol has no thixotropic effect. The thixotropic influence of mixtures of dioxane and water as well as of methyl alcohol and dioxane are investigated here. The region of thixotropic gelation in the case of dioxane is wider than in the methyl alcohol mixture. This confirms the fact that methyl alcohol does not influence the thixotropic gelation of aluminum oxide sols. There are 2 sets of diagrams, 3 tables, and 4 references, 3 of which are Soviet, and 1 German.

Card 1/2

SOV/69-20 -6-11/15

Studies of Aluminum Hydroxide Hydrosol. 4. The Thixotropic Gelation of
the Sol in a Mixture of Methyl Alcohol and Dioxane

ASSOCIATION: Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina,
Khimicheskiy fakul'tet (Kazan' State University imeni Ul'-
yanov-Lenin, Chemical Department)

SUBMITTED: April 25, 1957

1. Gels--Properties
2. Methanol--Chemical reactions
3. Dioxane--Chemical reactions

Card 2/2

RUFIMSKIY, P.V.

Hydrosel of aluminum hydroxide. 2. The influence of sodium chloride and ethyl alcohol on the thixotropic gelation of sols. [with English summary in insert]. Kell.zhur.18 no.3:332-336 My-Je '56. (MIRA 9:9)

1.Kazanskiy gosudarstvennyy universitet imeni V.I.Lenina,
(Alumina) (Gelation).

RUFIMSKIY, P.V.

Solvation of aluminum oxide hydrosol in aqueous-alcoholic
solutions [with English summary], Koll. zhur. 18 no. 1: 83-87
Ja-F '56.
(MLRA 9:6)

1. Kazanskiy gosudarstvennyy universitet imeni V.I.Lenina.
(Alumina) (Solvation)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2

RUFINSKIY PV

600

~~reaction of hydrogen and ammonia hydroxide in aqueous solution~~

PM

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001446010012-2"

ONIKIYENKO, V.V. [Onikiienko, V.V.]; RUFIN, V.A.

Present-day economy of the mountain districts of the Chernovtsy-
Province. Geog.zbir. no.1:151-169 '56. (MIRA 12:7)
(Chernovtsy Province--Economic geography)

LAPKO, Mikhail Vladimirovich; RUFIN, Valentin Andreyevich; TVERDOKHLEBOV,
Ivan Trofimovich [Tverdokhliebov, I.T.]; KIR'YAKOV, IU.F., red.;
LEBEDEV, I.P. [Lebediev, I.P.], red.kart; GORBUNOVA, N.M.
[Horbunova, N.M.], tekhn. red.

[Crimean Province; geographical study] Kryms'ka oblast'; geo-
grafichnyi narys. Kyiv, Derzh. uchbovo-pedagog. vyd-vo
"Radians'ka shkola," 1961. 138 p. (MIRA 15:4)
(Crimea—Geography)

L 21330-65 EWT(m)/EWA(d)/T SSD/AFWL
ACCESSION NR: AP4044445

S/0076/64/038/008/2040/2046

AUTHOR: Roginskiy, S. Z.; Rufov, Yu. N.

TITLE: Effect of the deviation of NiO from stoichiometric composition on the electron work function and on the sign of surface charge during adsorption

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 8, 1964, 2040-2046

TOPIC TAGS: nickel oxide, surface property, surface charge, Fermi level, electronic work function

ABSTRACT: An attempt was made to obtain NiO specimens with different work functions (φ) and to study the sign of their change during adsorption. It was known that depending on the method of production, the resultant nickelous oxides contain different amounts of excess oxygen, and consequently it was presumed that deviations from stoichiometry will lead to change of φ . Thus, it would be possible to produce specimens with similar types of surface states and different positions of Fermi level on the surface. All NiO preparations were obtained by thermal de-

Card 1/3

L 21330-65
ACCESSION NR: AP4044445

composition of basic nickel carbonate in a vacuum at 250, 350 and 450C or in air in the temperature interval from 400-1200C. Two samples were prepared by oxidation of technical grade nickel and 99.98% pure nickel at 600C and O₂ pressure of 2 mm. X-ray diffraction studies indicated that traces of carbonate are absent in NiO specimens produced in air at and above 900C. In all cases NiO has a cubic lattice. The specimens obtained had different coloration because of different excess O₂ contents. The surface potential of semiconductors was measured as the difference of contact potentials by the dynamic capacitor method. It was found that there exists a relationship between deviation from stoichiometric composition NiO and changes in electron work function φ . It is indicated that oxygen may diffuse to the surface as well as away from it, depending on the conditions. It has been established that the sign of the charge of adsorbed molecules is independent of the relative position of the Fermi level on the surface. These results support the previously expressed hypothesis that the sign of charge is determined by the nature of the semiconductor. The authors express their gratitude to M. D. Shbanov for iodometric analysis and M. Ya. Kushnerev for structural analysis of NiO samples. Orig. art. has: 3 figures and 2 tables.

Cord 2/3

L 21330-65

ACCESSION NR: AP4044445

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR)

SUBMITTED: 19Nov63

ENCL: 00

SUB CODE: IC, GC

NO REF SOV: 012

OTHER: 006

Card 3/3

ACC NR: AP7001898

SOURCE CODE: UR/0020/66/171/004/0905/0906

AUTHOR: Rufov, Yu. N.; Kadushin, A. A.

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Generation of luminescence during adsorption of vapors and gases on solids

SOURCE: AN SSSR. Doklady, v. 171, no. 4, 1966, 905-906

TOPIC TAGS: gas adsorption, luminescence

ABSTRACT: Luminescence in the visible and near infrared being associated with electron transitions, substances were studied in which such transitions are most probable during adsorption. Thus, the adsorption of O₂ and CO was studied on NiO, Fe₂O₃, Cr₂O₃ and ZnO. The adsorption of O₂ on NiO showed that de-excitation occurs in the 6000-8000 Å range, which corresponds to energies of 35-50 kcal/mole. These energies, which substantially exceed the heats of dispersive adsorption and other forms of physical adsorption, indicate that the luminescence observed is associated with chemisorption. The data strongly suggest the existence of adsorption luminescence as such (as opposed to ordinary chemiluminescence, triboluminescence, etc.), which indicates the intermediate formation of previously unrecognized electronically excited forms

Card 1/2

UDC: 541.115

ACC NR: AP7001898

during chemisorption. Authors thank R. F. Vasil'yev for useful methodic suggestions.
Orig. art. has 1 figure.

SUB CODE: 07/ SUBM DATE: 15Sep66/ ORIG REF: 007/ OTH REF: 003

Card 2/2

POGINSKIY, S.Z.; RUFCHIK, Yu.N. (Moscow)

Effect of the deviations of NiO content from stoichiometry on the work function of electron and on the sign of the surface charge in adsorption,
Zhur.fiz.khim. 38 no.8:2040-2046 Ag '64. (MIRA 18:1)

I. Institut khimicheskoy fiziki AN SSSR.

KAMINIR, L.B.; RUfov, Yu.N.

Voltage stability of gas regulators. Prib. i tekhn. eksp.
no.1: 98-100 J1-Ag '56. (MLRA 10:2)

1. Fizicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR.
(Voltage regulators)

POPOV, P.I.; RUFOVA, V.A., redaktor; NEGRIMOVSKAYA, R.A., tekhnicheskiy
redaktor.

[Popular manual of practical astronomy] Obschchedostupnaia prakticheskaiia
astronomiia. Izd. 3-e, ispr. i dop. Moskva, Gos. izd-vo tekhniko-teoret.
lit-ry, 1953. 171 p. (MIRA 8:1)
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